

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/580,888
Source: IFWP
Date Processed by STIC: 6/19/06

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IFWP

RAW SEQUENCE LISTING

DATE: 06/19/2006

PATENT APPLICATION: US/10/580,888

TIME: 11:12:54

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\06192006\J580888.raw

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3 <110> APPLICANT: Center for Genetic Engineering and Biotechnology
5 <120> TITLE OF INVENTION: PROTEIN NMB0928 AND USE THEREOF IN PHARMACEUTICAL
6   FORMULATIONS.
8 <130> FILE REFERENCE: NMB0928 PROTEIN AND ITS USE IN PHARMAC
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/580,888
C--> 11 <141> CURRENT FILING DATE: 2006-05-25
13 <150> PRIOR APPLICATION NUMBER: CU 2003/0286
14 <151> PRIOR FILING DATE: 2003-12-02
16 <160> NUMBER OF SEQ ID NOS: 9
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 25
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
27   oligonucleotide 7740
29 <400> SEQUENCE: 1
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36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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42 <400> SEQUENCE: 2
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47 <211> LENGTH: 1197
48 <212> TYPE: DNA
49 <213> ORGANISM: Neisseria meningitidis
51 <400> SEQUENCE: 3
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53 gatgacacga tgaccatat caaaccgcgc attgccgcgc tcgcactcat cgggcttgcc 120
54 gctgtctccg gcagcaaaac cgaacagccc aagctcgact accaaagccg gtcgcaccgc 180
55 ctgatcaaac ttgaagtccc acctgatttg aacaaccccg accaaggcaa cctctaccgc 240
56 ctgectgccg gttcgggcgc cgtccgcgcc agcgatttgg aaaaacgccg cacaccgcc 300
57 gtccaacagc ctgccgatgc cgaagtattg aaaagcgtca aaggtgtccg cctcgagcgc 360
58 gacggcagcc aacgctggct cgttgtcgac ggcaagtctc ctgccgaaat ctggccgctc 420
59 ctgaaagcct tttggcagga aaacggcttc gacatcaaat ccgaagaacc cgccatcgga 480
60 caaatggaaa ccgagtgggc ggaaaaccgc gccaaaatcc cccaagacag cttgcgccgc 540
61 ctcttcgaca aagtcggctt gggcggcatc tactccaccg gcgagcgca caaattcatc 600

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62 gtccgtatcg aacagggcaa aaacggcggt tccgacatct tcttcgcccc caaagccatg 660
63 aaagaagtgt acggcggcaa agacaaagac acgaccgtat ggcagccctc cccgtccgat 720
64 cccaacctcg aagccgcttt cctgacgcgc tttatgcaat atttgggcgt tgacggacag 780
65 caggcggaaa acgcatcggc aaaaaaacct acccttcccc cgcgcaacga aatggcgcgt 840
66 atcgaaggca aaagcctgat tgtctttggc gactacggca gaaactggcg gcgcaccgtg 900
67 ctgcacctcg accgcatcgg gctgaccgtc gtcggtcaaa acaccgaacg ccacgccttc 960
68 ctggttcaaa aagccccgaa cgaaagcaat gcagttaccg aacaaaaacc cggcctgttc 1020
69 aaacgcctgc tgggcaaagg caaagcggag aaacctgccg aacagccgga actgattgtc 1080
70 tatgcagaac ctgtcgccaa cggctcgcgc atcgtcctgc tcaacaaaga cggcagcgca 1140
71 tatgccggca aagacgcac cgcattattg ggcaaactcc attccgaact gcgttaa 1197

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74 <210> SEQ ID NO: 4

75 <211> LENGTH: 357

76 <212> TYPE: PRT

77 <213> ORGANISM: Neisseria meningitidis

79 <400> SEQUENCE: 4

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83 Ser His Arg Leu Ile Lys Leu Glu Val Pro Pro Asp Leu Asn Asn Pro
84   20           25           30
86 Asp Gln Gly Asn Leu Tyr Arg Leu Pro Ala Gly Ser Gly Ala Val Arg
87   35           40           45
89 Ala Ser Asp Leu Glu Lys Arg Arg Thr Pro Ala Val Gln Gln Pro Ala
90   50           55           60
92 Asp Ala Glu Val Leu Lys Ser Val Lys Gly Val Arg Leu Glu Arg Asp
93  65           70           75           80
95 Gly Ser Gln Arg Trp Leu Val Val Asp Gly Lys Ser Pro Ala Glu Ile
96   85           90           95
98 Trp Pro Leu Leu Lys Ala Phe Trp Gln Glu Asn Gly Phe Asp Ile Lys
99  100          105          110
101 Ser Glu Glu Pro Ala Ile Gly Gln Met Glu Thr Glu Trp Ala Glu Asn
102  115          120          125
104 Arg Ala Lys Ile Pro Gln Asp Ser Leu Arg Arg Leu Phe Asp Lys Val
105  130          135          140
107 Gly Leu Gly Gly Ile Tyr Ser Thr Gly Glu Arg Asp Lys Phe Ile Val
108 145          150          155          160
110 Arg Ile Glu Gln Gly Lys Asn Gly Val Ser Asp Ile Phe Phe Ala His
111  165          170          175
113 Lys Ala Met Lys Glu Val Tyr Gly Gly Lys Asp Lys Asp Thr Thr Val
114  180          185          190
116 Trp Gln Pro Ser Pro Ser Asp Pro Asn Leu Glu Ala Ala Phe Leu Thr
117  195          200          205
119 Arg Phe Met Gln Tyr Leu Gly Val Asp Gly Gln Gln Ala Glu Asn Ala
120  210          215          220
122 Ser Ala Lys Lys Pro Thr Leu Pro Ala Ala Asn Glu Met Ala Arg Ile
123 225          230          235          240
125 Glu Gly Lys Ser Leu Ile Val Phe Gly Asp Tyr Gly Arg Asn Trp Arg
126  245          250          255
128 Arg Thr Val Leu Ala Leu Asp Arg Ile Gly Leu Thr Val Val Gly Gln
129  260          265          270

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131 Asn Thr Glu Arg His Ala Phe Leu Val Gln Lys Ala Pro Asn Glu Ser
132          275          280          285
134 Asn Ala Val Thr Glu Gln Lys Pro Gly Leu Phe Lys Arg Leu Leu Gly
135          290          295          300
137 Lys Gly Lys Ala Glu Lys Pro Ala Glu Gln Pro Glu Leu Ile Val Tyr
138 305          310          315          320
140 Ala Glu Pro Val Ala Asn Gly Ser Arg Ile Val Leu Leu Asn Lys Asp
141          325          330          335
143 Gly Ser Ala Tyr Ala Gly Lys Asp Ala Ser Ala Leu Leu Gly Lys Leu
144          340          345          350
146 His Ser Glu Leu Arg
147          355
150 <210> SEQ ID NO: 5
151 <211> LENGTH: 1058
152 <212> TYPE: DNA
153 <213> ORGANISM: Neisseria meningitidis
155 <400> SEQUENCE: 5
156 ggcagcaaaa ccgaacagcc caagctcgac taccaaagcc ggtcgcaccg cctgatcaaa 60
157 cttgaagtcc cacctgattt gaacaacccc gaccaaggca acctctaccg cctgcctgcc 120
158 gggttcgggcg cgtccgcgc cagcaatttg gaaaaacgcc gcacaccac cgtccaacag 180
159 cctgccgatg ccgaagtatt gaaaagcgtc aaaggtgtcc gcctcgagcg cgacggcagc 240
160 caacgctggc tcgttgtcga cggcaagtct cctgccgaaa tctggccgct cctgaaagcc 300
161 ttttggcagg aaaacggctt cgacatcaaa tccgaagaac ccgccatcgg acaaaaggaa 360
162 accgagtggg cggaaaaccg cgccaaaatc cccaagaca gcttgcgccg cctcttcgac 420
163 aaagtcggct tgggcggcat ctactccacc ggcgagcgcg acaaattcat cgtccgtatc 480
164 gaacagggca aaaacggcgt ttccgacatc ttcttcgccc acaaagccat gaaagaagtg 540
165 tacggcggca aagacaaaga cagcacgcta tggcagccct ccccgctcga tcccaacctc 600
166 gaagccgctt tcctgacgcg ctttatgcaa tatttgggcg ttgacggaca gcaggcggaa 660
167 aacgcacgcg caaaaaaacc tacccttccc gccgccaacg aaatggcgcg tatcgaaagc 720
168 aaaagcctga ttgtctttgg cgactacggc agaaactggc ggcgcacctg gctcgccctc 780
169 gaccgcacg cggtgaccgt cgtcgggtcaa aacaccgaac gccacgcctt cctgggtcaa 840
170 aaagccccga acgaaagcaa tgcagttacc gaacaaaaaac ccggcctgtt caaacgcctg 900
171 ctgggcaaa gcaaagcgga gaaacctgcc gaacagccgg aactgattgt ctatgcagaa 960
172 cctgtcgcca acgggtcgcg catcgctctg ctcaacaaag acggcagcgc atatgccggc 1020
173 aaagacgcat ccgcattatt gggcaaactc cattccga 1058
176 <210> SEQ ID NO: 6
177 <211> LENGTH: 1058
178 <212> TYPE: DNA
179 <213> ORGANISM: Neisseria meningitidis
181 <400> SEQUENCE: 6
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183 cttgaagtcc cacctgattt gaacaacccc gaccaaggca acctctaccg cctgcctgcc 120
184 gggttcgggcg cgtccgcgc cagcgatttg gaaaaacgcc gcacaccac cgtccaacag 180
185 cctgccgatg ccgaagtatt gaaaagcgtc aaaggtgtcc gcctcgagcg cgacggcagc 240
186 caacgctggc tcgttgtcga cggcaagtct cctgccgaaa tctggccgct cctgaaagcc 300
187 ttttggcagg aaaacggctt cgacatcaaa tccgaagaac ccgccatcgg acaaaaggaa 360
188 accgagtggg cggaaaaccg cgccaaaatc cccaagaca gcttgcgccg cctcttcgac 420
189 aaagtcggct tgggcggcat ctactccacc ggcgagcgcg acaaattcat cgtccgtatc 480
190 gaacagggca aaaacggcgt ttccgacatc ttcttcgccc acaaagccat gaaagaagtg 540

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191 tacggcgcca aagacaaaga cagcaccgta tggcagccct ccccgccga tcccaacctc 600
192 gaagccgctt tcctgacgcg ctttatgcaa ttttgggcg ttgacggaca gcaggcgga 660
193 aacgcacgga caaaaaaacc tacccttccc gccgccaacg aaatggcgcg tatcgaaagc 720
194 aaaagcctga ttgtctttgg cgactacggc agaaactggc ggcgacacgt gctcgccctc 780
195 gaccgcacg cgctgacggt cgtcgggtcaa aacaccgaac gccacgcctt cctgggtcaa 840
196 aaagccccga acgaaagcaa tgcagttacc gaacaaaaac ccggcctgtt caaacgcctg 900
197 ctgggcaaa gcaaagcgga gaaacctgcc gaacagccgg aactgattgt ctatgcagaa 960
198 cctgtcgcca acgcctcgcg catcgtcctg ctcaacaaag acggcagcgc atatgccggc 1020
199 aaagacgcat ccgcattatt gggcaaacct cattccga 1058
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203 <211> LENGTH: 1058
204 <212> TYPE: DNA
205 <213> ORGANISM: Neisseria meningitidis
207 <400> SEQUENCE: 7
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210 ggttcgggcg ccgtccgcg cagcaatttg gaaaaacgcc gcacaccac cgtccaacag 180
211 cctgccgatg ccgaagtatt gaaaagcgct aaaggtgtcc gcctcgagcg cgacggcagc 240
212 caacgctggc tegtgtcgca cggcaagtct cctgccgaaa tctggccgct cctgaaagcc 300
213 ttttggcagg aaaacggctt cgacatcaaa tccgaagaac ccgccatcgg acaaaaggaa 360
214 accgagtggg cggaaaaccg cgccaaaatc cccaagaca gcttgcgccg cctcttcgac 420
215 aaagtcggct tgggcggcat ctactccacc ggcgagcgcg acaaattcat cgtccgtatc 480
216 gaacagggga aaaacggcgt ttccgacatc ttcttcgccc acaaagccat gaaagaagtg 540
217 tacggcgcca aagacaaaga cagcaccgta tggcagccct ccccgccga tcccaacctc 600
218 gaagccgctt tcctgacgcg ctttatgcaa ttttgggcg ttgacggaca gcaggcgga 660
219 aacgcacgga caaaaaaacc tacccttccc gccgccaacg aaatggcgcg tatcgaaagc 720
220 aaaagcctga ttgtctttgg cgactacggc agaaactggc ggcgacacgt gctcgccctc 780
221 gaccgcacg cgctgacggt cgtcgggtcaa aacaccgaac gccacgcctt cctgggtcaa 840
222 aaagccccga acgaaagcaa tgcagttacc gaacaaaaac ccggcctgtt caaacgcctg 900
223 ctgggcaaa gcaaagcgga gaaacctgcc gaacagccgg aactgattgt ctatgcagaa 960
224 cctgtcgcca acgcctcgcg catcgtcctg ctcaacaaag acggcagcgc atatgccggc 1020
225 aaagacgcat ccgcattatt gggcaaacct cattccga 1058
228 <210> SEQ ID NO: 8
229 <211> LENGTH: 29
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
235     oligonucleotide 1573
237 <400> SEQUENCE: 8
238 ttccatggta gataaaagaa tggctttag 29
241 <210> SEQ ID NO: 9
242 <211> LENGTH: 27
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
248     oligonucleotide 6795
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251 aactgcaggc ttgtaaaccg ttttgtg

27

VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date